



# 20 kW DIESEL GENERATOR

## 20,000 WATT - OEM

60 Hz., 1800 RPM Liquid Cooled  
Single Phase, 1.0 Power Factor  
Automatic Voltage Regulated  
166.7 Amps @ 120 Volts AC  
83.3 Amps @ 240 Volts AC



### GENERATOR FEATURES

#### Small Foot Print, Big Power, In A Compact Design

Built in Canada to meet the toughest customers needs in a compact design. Power you can depend on for commercial or off-grid applications. Gasoline or propane can not compare to the longevity of diesel engines. When you compare fuel and replacement costs of running a diesel generator to other types of generators, diesel is the least expensive and the most reliable. These generators can be used full-time or part-time, no matter what your application is. Includes many of our standard equipped features and components such as a DynaGen generator controller, main circuit breaker, muffler, vibration isolators, engine temperature sending unit, low coolant level sensor, EZ Oil drain valve and complete manuals on USB drive (includes software and any videos). Simply add your own engine starting battery and fuel supply, or purchase an optional Aurora fuel tank.

#### Engine

Powered by an American Built, compact Perkins 400 Series Engine. These engines are compact and easy to start. Perkins is known for their exceptional performance and long life. Low fuel consumption and durability make them a popular choice worldwide for power generation. Customers also save on maintenance costs because Perkins engines require fewer air filter, oil filter and lube oil changes. (Oil changes up to every 500 hours depending on load factor).

#### Alternator

Highly reliable industrial class alternator. A popular choice for harsh conditions where clean, stable power is required. Output is electronically voltage regulated to within 0.5% precision. The brushless design requires no maintenance.

#### Controller

Dynagen - Clear generator instrumentation, complete generator system protection and control, 150 event logging, fuel level display and alarm capable. Programmable maintenance and exercise clock and much more. The controller is built to withstand severe duty, extreme shock, and vibration. Easy to use and configure via front panel buttons. Can be used manually or fully automatic via 2 wire auto start devices, such as transfer switch, off grid inverter systems or wireless remote control. Accepts additional customer sensors and switched outputs.

#### Limited Warranty

Aurora 5 YEAR Generator Warranty, Perkins 3000 hours or two year engine warranty (three year core components). Perkins warranty is comprehensive and covers all parts and labour, plus miscellaneous items such as the travel costs of engineers to repair the engine. Optional extended warranty also available from Perkins.

### OPTIONAL ACCESSORIES

#### Available Fuel Tank Options

- ~ 45 Litre (12 gal US) Aluminum Fuel Tank
- ~ 450 Litre / 100 gal Standalone Double Wall Fuel Tank UL
- ~ 1100 Litre / 250 gal Standalone Double Wall Fuel Tank UL
- ~ 225 Litre / 50 gal Mobile Fuel Tank
- ~ 450 Litre / 100 gal Mobile Fuel Tank

#### Available Generator Options

- ~ TG410 Controller Upgrade
- ~ Current Load Sensing
- ~ Battery Charger
- ~ Coolant Block Heater
- ~ Remote Monitoring
- ~ Wireless Remote Control
- ~ Solar Battery Charger
- ~ Battery Cables
- ~ Spare Perkins OEM Filters



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## Generator Specifications

Model	AGi20P-OEM
Type	Diesel
Power	20,000 watts 60 Hz Single Phase 83.3 amps @ 240 volts AC 166.7 amps @ 120 volts AC

Dimensions	51"L x 27"W x 36"H
Weight	900 lbs
Country of Origin	Made in Canada
Approvals	CSA SPE-1000

## Generator Controller

DynaGen	TG350 / TG410 (Optional)
Operating Voltage	5.5 to 38VDC continuous. Cranking dropouts to 0 VDC for 50 mS, also meets SAE J1113-11
Standby Current Draw	50 mA
Protection	Reverse battery and overload protected.
Operating Temperature	-40° - +158° F
Vibration & Shock	Meets or exceeds SAE J1455
Electromagnetic Compatibility	Meets or exceeds MIL-STD-461E Conducted Emissions
Configurable Switched Inputs	5
Configurable Switched Outputs (in addition to fuel & crank)	4
Warranty	5 Years

## Engine Specifications

Make/Model	Perkins 404D-22G
Standby Power	32.6 hp
Fuel Consumption - Prime	6.9 L / Hr 1.8 gal (US) / Hr
Fuel Consumption - 50%	3.5 L / Hr 0.9 gal (US) / Hr
Engine Speed	1800 RPM
Number of cylinders	4
Aspiration	Naturally aspirated
Combustion System	Indirect Injection
Compression Ratio	23.3:1
Bore and Stroke	84 x 100 mm / 3.3" x 3.9"
Displacement	2.216 litres
Cooling System	Water Cooled
Coolant Capacity	7 L 1.8 gal (US) / Hr
Oil Capacity	10.6 L 2.8 gal (US) / Hr
Oil & Filter Changes	500 hr dependent on load factor
Charging Alternator	40 amp
Battery	12 Volt 850 cca - Not included
Warranty	3000 Hr / 2 Year

## Alternator

Model	SMU180C
Type	Brushless Automatic Voltage Regulated
Voltage Regulation	±1
Rated Output	83.3 amps at 240 volts 166.7 amps at 120 volts
Insulation	Class H
Warranty	5 Years

 **Perkins®**

**Diesel Power**

Specifications are subject to change without notice.

